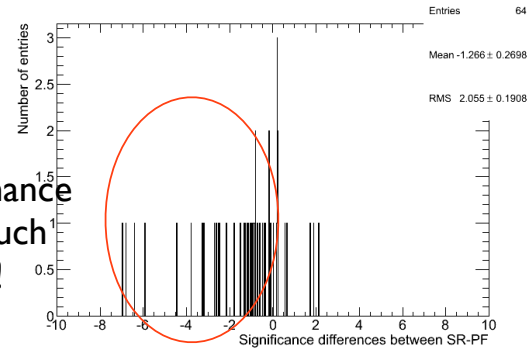
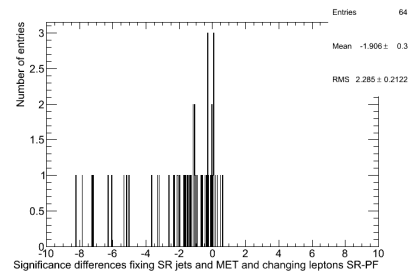
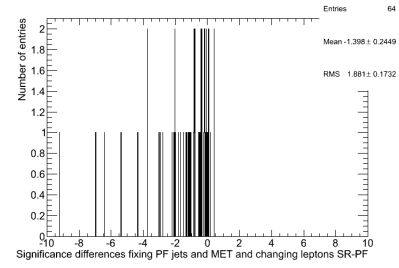
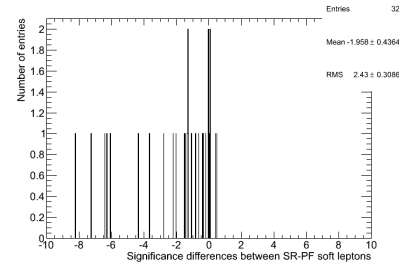


Finally....

PF performance
is now much
better!





Significance tables

Standard Reco Jets and MET and Standard Reco leptons.

Single Lepton!!		electrons			muons			
Sample	V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2	V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	94.6718	156.434	192.581	225.028	115.698	142.452	169.42	180.378
LM1	11.7753	20.2384	27.0027	31.6861	14.2853	17.1184	23.0309	25.1614
QCD 250-500	0	0	0	0	0	0	0	0
QCD 500-1000	1.15459	7.36053	14.7211	27.9989	0.144324	0.865945	3.89675	8.08215
QCD 1000-Inf	2.05264	3.25592	6.46465	12.7641	0.0235936	0.353904	1.17968	2.35936
BB	0	0	0	0	0	0	0	0
WJets	182.456	230.702	265.79	280.702	183.334	196.492	226.316	232.457
TT Bar Jets	34.2246	46.1296	51.642	54.8333	36.2246	38.5864	43.2284	44.9691
Sig LM0	6.38425	9.22683	10.4655	11.6003	7.84081	9.26702	10.2235	10.6313
Sig LM1	0.794071	1.19371	1.46741	1.63344	0.968108	1.11361	1.38977	1.48299

SR Leptons

Standard Reco Jets and MET and Particle Flow leptons.

Single Lepton!!		electrons				muons			
	Sample	V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2	V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
	LM0	108.832	165.507	202.045	229.866	105.132	139.179	161.949	167.677
	LM1	13.4923	19.2828	25.7307	29.2755	13.5872	17.6629	23.5053	25.071
	QCD 250-500	0	0	0	0	0	0	0	0
	QCD 500-1000	0.288648	4.04108	8.9481	18.4735	0	0.865945	2.30919	3.89675
	QCD 1000-Inf	0.235936	1.34484	3.09076	6.58262	0.0235936	0.165155	0.613434	0.967339
	BB	0	0	0	0	0	0	0	0
	WJets	185.965	238.597	263.158	272.807	178.07	194.737	221.053	225.439
	TT Bar Jets	35.9753	48.4506	53.0926	55.7037	33.3642	39.7469	42.6481	42.6481
	Sig LM0	7.29666	9.67836	11.1511	12.2247	7.22971	9.06912	9.9181	10.1492
	Sig LM1	0.904597	1.1276	1.42011	1.55693	0.934366	1.15094	1.43952	1.5175

PF Leptons

Same Sign electrons

Standard RECO

```
Standard Reco Jets and MET and Standard Reco leptons.
Same Sign Double Lepton!!
Sample      electron electron
            V+j pt 10  SL opt::pt10  SL opt::pt5  SL opt::pt2
LM0         2.88178    7.86263    13.4127    20.3503
LM1         0.438296    1.21322    2.10789    3.08389
QCD 250-500 0          0          0          0
QCD 500-1000 0        0.865945    4.32973    13.5665
QCD 1000-Inf 0        0.141562    0.401092    1.32124
BB          0          0          0          8989.73
WJets       12.2807    50.0001    89.4738    134.211
TT Bar Jets 0          2.61111    4.06173    6.96296
Sig LM0     0.822335    1.07377    1.35305    0.212795
Sig LM1     0.125071    0.165685    0.21264    0.0322469
```

Particle Flow

```
Particle Flow Jets and MET and Particle Flow leptons.
Same Sign Double Lepton!!
Sample      electron electron
            V+j pt 10  SL opt::pt10  SL opt::pt5  SL opt::pt2
LM0         2.49043    6.68858    10.2463    13.1637
LM1         0.388593    0.815593    1.43689    1.97007
QCD 250-500 0          0          0          0
QCD 500-1000 0        0.144324    0.577297    1.15459
QCD 1000-Inf 0        0.0235936    0.0707809    0.25953
BB          0          0          0          0
WJets       1.75439    8.77194    10.5263    18.4211
TT Bar Jets 0          1.16049    1.45062    1.74074
Sig LM0     1.88023    2.10458    2.88371    2.83395
Sig LM1     0.293381    0.256629    0.404396    0.424129
```

Opposite Sign

SR leptons

Standard Reco Jets and MET and Standard Reco leptons.					
Opposite Sign Double Lepton!!	Sample	electron	electron		
		V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
	LM0	14.9426	29.6717	39.5622	48.2431
	LM1	3.42278	6.14519	8.16496	9.5657
	QCD 250-500	0	0	0	0
	QCD 500-1000	0	1.01027	4.90702	15.8757
	QCD 1000-inf	0.0471872	0.117968	0.377498	1.4864
	BB	0	0	8989.73	8989.73
	WJets	6.14036	45.6141	85.0879	137.72
	TT Bar Jets	8.41358	17.4074	21.7593	25.2407
	Sig LM0	3.9105	3.70463	0.414682	0.50379
	Sig LM1	0.895747	0.767251	0.0855833	0.0998921

PF leptons

Standard Reco Jets and MET and Particle Flow leptons.					
Opposite Sign Double Lepton!!	Sample	electron	electron		
		V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
	LM0	14.4801	24.9398	31.2015	36.5025
	LM1	3.65548	5.17596	6.59252	7.41715
	QCD 250-500	0	0	0	0
	QCD 500-1000	0	0.577287	2.74216	9.23675
	QCD 1000-inf	0	0.0235936	0.165155	0.637028
	BB	0	0	0	0
	WJets	0.877195	3.50878	6.14036	11.4035
	TT Bar Jets	1.74074	3.77161	5.22222	7.54321
	Sig LM0	8.94933	8.88374	8.25971	6.79943
	Sig LM1	2.25925	1.84371	1.74518	1.38161